

SECTION 01010**GENERAL REQUIREMENTS****PART I GENERAL****1.1 SUMMARY**

- A. The intent of these specifications is to establish technical requirements necessary to support the above-grade decontamination and dismantlement (D&D) of the structures and components at the Fernald Environmental Management Project (FEMP).
- B. In all cases where the terms "Vendor", "Seller", "Manufacturer", or similar terms appear in these specifications or in the appendices to these specifications, they shall be understood to refer to an individual or firm(s) providing materials, equipment or services, as noted, under a contract to Fluor Fernald.
- C. In all cases where the term "Contractor" appears in these specifications, it shall be understood to refer to the Contractor and their subtier contractors who are performing the D&D services at the FEMP.
- D. In all cases where the words "FEMP Project Manager" or "Construction Manager" appear, they shall be understood to refer to Fluor Fernald.
- E. General: The technical specifications are of the abbreviated, simplified, or streamlined type and include incomplete sentences. Omissions of words or phrases such as "the contractor shall," "in conformity therewith," "shall be," "as noted on the drawings," "according to the plans," "a," "the," and "all" are intentional. Omitted words or phrases shall be supplied by inference in the same manner as they are when a "note" occurs on the drawings.

For convenience of reference and to facilitate the letting of contracts, the Specification is separated into titled Sections. The following defines the separations referred to in the Specification:

- 1. Section: Separate numbered section of the Specification (e.g., Sec. 16020)
- 2. Article: Separate numbered article of a Section (e.g., Article 2.1)
- F. Definitions: Certain terms and words as used throughout the Sections shall be defined as follows, unless otherwise particularly specified:
 - 1. "Provide": Furnish and install, complete, in place.
 - 2. "Indicated": As shown on the drawings and/or specified.
 - 3. "Directed,"
"Authorized,"
"Permitted": Shall be as directed, authorized, or permitted by Fluor Fernald.
 - 4. "Selected": Shall be as selected by the Contractor or Fluor Fernald.

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5. "Satisfactory," Satisfactory or acceptable to Fluor Fernald.
"Acceptable":
6. "Necessary," As necessary, required, or suitable for the intended purpose as
"Required," determined by Fluor Fernald.
"Suitable":
7. "Submit": Submit to Fluor Fernald unless otherwise specified.
8. "Above-grade": Refers to first, second, third, etc., stories of a facility, and accessible materials/equipment in basements, sumps, pits, and trenches of a facility.
9. At- and Below-grade: Slab, and/or basement, foundation, loading docks, etc.
10. In all cases where the words "or equal" appear in these specifications, they shall be understood to mean "or approved equal."

1.2 REFERENCES, CODES, AND STANDARDS

All work shall be accomplished in accordance with the code requirements listed below. References to specific codes, regulations, standards, or other criteria documents in these Sections are indicated as the latest edition or revision of each document, as of the date when these Sections were prepared. Invoking all or any part of these standards is to be accomplished in accordance with normal industry practices. Standards listed in these Sections can be used in their entirety or applicable sections depending on their application to the services being rendered by the Contractor.

- A. Ohio Basic Building Code (OBBC) 1994
- B. Life Safety Code 101 - 1998
- C. Other applicable National Fire Protection Association (NFPA) Codes - All inclusive, including 1998 revisions
- D. 29 CFR 1910 - Occupational Safety and Health Standards for General Industry
- E. 29 CFR 1926 - Occupational Safety and Health Standards for the Construction Industry
- F. 40 CFR – Protection of Environment
- G. DOE Order 440.1A - Worker Protection Management for DOE Federal and Contractor Employees
- H. DOE Order N 441.1 - Radiological Protection for DOE Activities
- I. DOE Order 5400.5 - Radiation Protection of the Public and the Environment
- J. 10 CFR 835 - Occupational Radiation Protection

SECTION 01010**K. 10 CFR 830 – Nuclear Safety Management****1.3 SUBMITTALS**

- A. If required in Part 6 of the Invitation for Bid/Request for Proposal (IFB/RFP), provide twelve (12) copies of a recommended operating manual or spare parts list which shall be submitted at least sixty (60) days prior to the shipment of any item of equipment.
- B. A "Installation, Operation, and Maintenance (IOM) Manual" shall be prepared so as to provide optimum operation and maintenance of the equipment and systems being furnished.
- C. The cover of the IOM Manual shall include the following information:
 - 1. Project Title - _____,
 - 2. Contractor,
 - 3. Construction Manager - Fluor Fernald, and
 - 4. Subtier Contractor (name, if any).
- D. The IOM Manuals shall be bound into one or more volumes for ease of handling, and shall have an index. The manual shall include descriptive literature, drawings, performance curves and rating data, test reports, and spare parts lists. The maintenance section shall divide maintenance procedures into two categories, "Preventive Maintenance" and "Corrective Maintenance," and a subsection for "Safety Precaution". Preventive maintenance shall include cleaning and adjustment instructions. Corrective maintenance shall include instructions and data arranged in the normal sequence of corrective maintenance (i.e., troubleshooting, logical effect to cause), then repair and replacement of parts, then the parts list. Safety Precautions shall comprise a list of safety precautions and instructions to be followed before, during, and after making repairs, adjustments, or routine maintenance.

1.4 QUALITY REQUIREMENTS

- A. The Contractor shall provide written procedures for Fluor Fernald's review and approval of all tests to be performed as identified in the drawings and specifications. These procedures shall provide the detailed step-by-step operations with sign-off columns and date columns and shall be submitted and approved prior to testing.
- B. The Contractor shall not deviate from construction acceptance tests as reviewed and approved by Fluor Fernald.
- C. All test instruments shall have been calibrated within 12 months prior to use on this contract or at intervals as recommended by vendor, by a calibration laboratory whose calibration equipment and instruments are fully traceable to National Institute of Standards and Technology (NIST) standards. The Contractor shall provide individual certification of calibration and NIST standards traceability for all test instruments used on this Contract.

SECTION 01010**1.5 ABBREVIATIONS FOR REFERENCED STANDARDS AND SPECIFICATIONS**

The following list denotes abbreviations used in the technical portions of these Sections:

<u>Abbreviation</u>	<u>Authority or Title</u>
AASHTO	American Association of State Highway Transportation Officials
ACGIH	American Conference of Governmental Industrial Hygienists
ACI	American Concrete Institute
ACRI	Air Conditioning and Refrigeration Institute
ADC	Air Diffusion Council
AGC	Associated General Contractors of America
AISC	American Institute of Steel Construction
AISI	American Iron and Steel Institute
AMCAAir	Movement and Control Association
ANSI	American National Standards Institute
APA	American Plywood Association
API	American Petroleum Institute
ASCE	American Society of Civil Engineers
ASHRAE	American Society of Heating, Refrigerating, and Air Conditioning Engineers
ASME	American Society of Mechanical Engineers
ASTM	American Society for Testing and Materials
AWS	American Welding Society
AWWA	American Water Works Association
CFR	Code for Federal Regulations
DHI	Door and Hardware Institute

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<u>Abbreviation</u>	<u>Authority or Title</u>
ERDA	Energy Research and Development Administration
FGMA	Flat Glass Marketing Association
FM	Factory Mutual System
GA	Gypsum Association
ICBO	International Conference of Building Officials
IEEE	Institute of Electrical and Electronics Engineers
IFB	Invitation for Bid
IMIAC	International Masonry Industry All-Weather Council
MBMA	Metal Building Manufacturers Association
NAAMM	National Association of Architectural Metal Manufacturers Association
NCMA	National Concrete Masonry Association
NEC	National Electric Code
NEMA	National Electrical Manufacturers Association
NETA	National Electrical Testing Association
NFPA	National Fire Protection Association
NIST	National Institute of Standards and Technology
ODOH	Ohio Department of Health
ODOT	Ohio Department of Transportation
OSHA	Occupational Safety and Health Administration
PCA	Portland Cement Association
PCI	Prestressed Concrete Institute
PS	United States Department of Commerce, Voluntary Products Standards
RFP	Request for Proposal

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<u>Abbreviation</u>	<u>Authority or Title</u>
SDI	Steel Door Institute
SIGMA	Sealed Insulating Glass Manufacturers Association
SJI	Steel Joist Institute
SMACNA	Sheet Metal and Air Conditioning Contractors National Association
SSPC	Steel Structures Painting Council
UL	Underwriters Laboratories, Inc.

END OF SECTION